Indian National Science Academy, New Delhi, Indian Academy of Sciences, Bangalore and the National Academy of Sciences, Allahabad at their websites as well as in their publications are ready sources of such information. The Year Books of Indian National Science Academy, New Delhi and Indian Academy of Sciences, Bangalore giving the above information in brief are also available in the Parliament library.

Filing of Patent in USA

2535. SHRI A. VIJAYARAGHAVAN: Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether Department of Science and Technology (DST) and Council of Scientific and Industrial Research (CSIR) used to file patents in USA;

(b) if so, the number of patents filed, granted and licensed for last five years by DST and CSIR year-wise, categoiy-wise, organization-wise;

(c) if so, the amount of fees paid for filing patent and amount paid as maintenance fee, fee paid to attorney for filing patents, if any, license fee received and royalty received for last five years by DST and CSIR, year-wise, category-wise, organization-wise; and

(d) the criteria adopted for selecting application for filing patents in USA?

THE MINISTER OF SCIENCE AND TECHNOLOGY (SHRI KAPIL SIBAL): (a) Yes, Sir.

(b) (i) The number of patents filed, granted and licensed in the last five years by Council of Scientific and Industrial Research (CSIR) are given in the following table:

The number of patents filed, granted and licensed by CSIR:

Year	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	Total
Filed	236	255	201	135	115	942
Granted	69	149	141	142	111	612
Licensed	.....					92

(ii) Department of Science and Technology (DST), through its Patent Facilitating Centre (PFC), has been facilitating filing of patent applications on behalf of educational institutions and governmental R&D agencies and government departments:

The number of patents filed, granted and licensed by DST:

Year	2001-02	2002-03	2003-04	2004-05	2005-06	Total	
Filed	09	05	02			06	22
Granted	03	04	06	07		02	22
Licensed			-			-	

(c) The amount spent in various heads by DST/CSIR are given below:

Year	2001-02	2002-03	2003-04	2004-05	2005-06
Filing and Prosecution fees	557.60	935.37	953.64	916.61	806.18
* Attorney charges		.			
Maintenance fees	19.30	42.77	41.80	56.56	92.50

* included in filing fees and maintenance fees

The total money realized on licensing of US patents by CSIR during the period was Rs. 1264 lakhs (Rupees one thousand two hundred and sixty four lakhs only)

Patent applications filed in USA

Category	2001-02	2002-03	2003-04	2004-05	2005-06
Bio-sciences/Drugs & Pharmaceuticals	99	110	50	49	40
Chemical Sciences	94	97	115	70	61
Engg. & others	43	48	36	16	14
TOTAL:	236	255	201	135	115

Patents granted in USA

Category	2001-02	9)02-03	2003-04	2004-05	2005-06
Bio-sciences/Drugs & Pharmaceuticals	30	58	58	43	39
Chemical Sciences	36	80	59	73	51
Engg. & others	3	11	24	26	21
TOTAL:	69	149	141	142	111

DST: (Rs. in Lakhs)

Year	2001-02	2002-03	2003-04	2004-05	2005-06
Filing fees	4.08	1.60	0.90		2.40
Attorney charges	6.07	3.60	2.47		3.52
Maintenance fees				1.23	

No Patent was licensed by DST.

Organization-Wise break-up in patent filing

Department of Science and Technology (DST), New Delhi	06
National Institute of Pharmaceutical Education and Research (NIPER), Mohali, Punjab	01
Indian Institute of Technology (IIT), Kanpur	03
All India Institute of Medical Sciences (AIIMS), New Delhi	01
College of Pharmacy, Delhi	01
Indian Institute of Technology (IIT), Delhi	02
University of Delhi, Delhi	02
Jawaharlal Nehru University, New Delhi	02
Indian Institute of Science (llSc), Bangalore	01
Indian Institute of Technology (IIT), Chennai	02
CSS Haryana Agricultural University, Hisar	01
TOTAL:	22

Category-wise break-up in patent filing	
Natural products	04
Drugs and Pharmaceutical	04
Material	02
Devices (electronics, mechanical, etc.)	02
Diagnostic/treatment methods	02
Nanotechnology (Materials, devices)	02
Chemical (includes fertilizers)	03
Engineering	02
Others	01
TOTAL:	22

Organization-wise break-up in patent granted	
Department of Science and Technology (DST), New Delhi	09
Maulana Azad Medical College, Delhi	02
National Institute of Ocean Technology (NIOT), Chennai	01
National Institute of Pharmaceutical Education and Research (NIPER), Mohali, Punjab	01
Indian Council of Medical Research (ICMR), New Delhi	01
University of Delhi, Delhi	02
GB Pant University of Agriculture and Technology, Pantnagar, Uttaranchal	01
Indian Institute of Technology (IIT), Kanpur	02
Indian Institute of Technology (IIT), Delhi	01
Indian Institute of Science (IISc), Bangalore	01
Jawaharlal Nehru University, New Delhi	01
TOTAL:	22

Category-wise break-up in patent granted

Natural products	07
Drugs and Pharmaceutical	04
Material	03
Devices (electronics, mechanical, etc.)	02
Diagnostic/treatment methods	03
Nanotechnology (Materials, devices)	01
Chemicals (includes fertilizers)	02
Engineering	-
Others	-
TOTAL:	22

(d) Criteria adopted for selecting application for filing patents in USA in respect of DST and CSIR are given as under:

CSIR: The methodology adopted for selection of IP is done pro-actively in a two-tier mode. In each laboratory, there is an IP Cell manned by an IP coordinator who interfaces between the scientists in the laboratory and the central operation called Intellectual property Management division, A publication and patent committee and/or Director at the laboratory level scrutinizes all the research publications and identifies intellectual property which could be protected by patents and other forms of IP. There is a close interaction between the CSIR labs and Intellectual Property Management Division to identify the leads that could be patentable.

DST: The inventing scientists are required to present their proposals for patenting abroad before an Advisory Committee set up by DST. The Committee has members from most of the scientific departments and the members have experience and expertise in different subject areas, besides having experience in handling patents' matters in their respective departments. The decision on whether to file a US application or not is taken on the basis of the recommendation of this Committee.

Scholarship to SCs and OBCs in Karnataka

2536. SHRI K.B. SHANAPPA: Will the Minister of SOCIAL JUSTICE AND EMPOWERMENT be pleased to state:

(a) the amount of scholarship provided to the SC and OBC students receiving pre-matric and post-matric scholarship in Karnataka;